

## RUGGEDIZED SCINTILLATION DETECTOR FOR PORTAL MONITORS

## ABSTRACT OF THE DISCLOSURE

[0033] A radiation detector includes a housing, an elongated, rectangular crystal having four longitudinally extending corners, and a photomultiplier tube both supported in the housing, with a light pipe located axially between respective facing ends of the photomultiplier tube and the crystal; and a plurality of elongated rails extending along respective ones of the longitudinally extending corners of the rectangular crystal, establishing an air gap between the crystal and the housing.